

ABSTRACT

Analytical determination of drugs by spectral methods

Thesis

Hana Mazancová

Charles University in Prague, Faculty of Pharmacy in Hradec Králové,
Department of Pharmaceutical Chemistry and Drug Control

The thesis is focused on evaluation of drugs in the scope of atomic emission spectrometry method. Based on this particular method there were evaluated solutions of healing preparations containing iron - Sorbifer Durules tbl., Tardyferon tbl. a Maltofer gtt.. The analysis was performed on the device Shimadzu AA 7000 Series with the use of atomization in the flame. During the analysis there were used combined C_2H_2 with the air. Samples were measured at wavelength 372,0 nm. For purposes of identification of the selected method, there were optimized variety of different adjustments of medicinal products. Solutions of healing preparations were prepared with the use of purified water, sulphuric acid and hydrochloric acid.

The obtained results were used for preparation of the instruction manual for purposes of laboratory task, which will be used during laboratory excercises being integral part of the course Pharmaceutical Analysis. For purposes of the laboratory excercises, from all tested preparations there were selected Tardyferon tablets as well as drops of Maltofer.

Key wordings: Atomic emission spectrometry, iron